

# Impedance Matching with Vector-Receiver Load Pull

Keysight Technologies and Maury Microwave

## Improve the performance of your amplifiers with fast, accurate impedance matching

Load pull is the technique used to determine the ideal matching impedances required to maximize power transfer, output power, gain and efficiency in amplifier designs. With vector-receiver load pull, the scalar measurement instruments traditionally used are replaced by a vector network analyzer. Vector-receiver load pull allows you to make faster, more accurate assessments of the optimum matching impedances required for your amplifier designs.

The signal path in a traditional load pull system consists of a signal source and amplifier, source and load impedance tuners, a power meter and, optionally, a spectrum analyzer. If the scalar measurement instruments are replaced by a vector network analyzer the signals can be analyzed on a per-frequency basis. Each frequency component is accurately separated and can be used to calculate independent fundamental and harmonic powers. Additionally, a network analyzer is inherently a more accurate tool for measuring power than a power meter or spectrum analyzer.

In a vector-receiver load pull system measurements are made in real time at the device-under-test (DUT) reference plane. Instead of measuring power parameters, the actual DUT a- and b-waves are measured, allowing a more complete set of parameters to be analyzed. Parameters include large signal input impedance, which is used to determine delivered input power, power gain and power added efficiency, AM-PM, and harmonic measurements.

Using a vector-receiver load pull system eliminates the necessity for multiple load-pull source-pull iterations thereby saving time, it reduces errors cause by de-embedding through tuners at higher gammas and it improves the overall accuracy by measuring at the DUT reference plane.

- Load pull measurements using vector network analyzer
- Provides faster and more accurate impedance matching
- Allows measurements on per frequency basis
- Measurements made at DUT reference plane
- Separates fundamental and harmonic measurements
- Eliminates load-pull source-pull iterations
- Uses Keysight PNA-X analyzers



# Impedance Matching With Vector Receiver Load Pull

**Chao Zhang**



## **Impedance Matching With Vector Receiver Load Pull:**

*The Load-pull Method of RF and Microwave Power Amplifier Design* John F. Sevic, 2020-06-23 Using the load pull method for RF and microwave power amplifier design This new book on RF power amplifier design by industry expert Dr John F Sevic provides comprehensive treatment of RF PA design using the load pull method the most widely used and successful method of design Intended for the newcomer to load pull or the seasoned expert the book presents a systematic method of generation of load pull contour data and matching network design to rapidly produce a RF PA with first pass success The method is suitable from HF to millimeter wave bands discrete or integrated and for high power applications Those engaged in design or fundamental research will find this book useful as will the student new to RF and interested in PA design The author presents a complete pedagogical methodology for RF PA design starting with treatment of automated contour generation to identify optimum transistor performance with constant source power load pull Advanced methods of contour generation for simultaneous optimization of many variables such as power efficiency and linearity are next presented This is followed by treatment of optimum impedance identification using contour data to address specific objectives such as optimum efficiency for a given linearity over a specific bandwidth The final chapter presents a load pull specific treatment of matching network design using load pull contour data applicable to both single stage and multi stage PA s Both lumped and distributed matching network synthesis methods are described with several worked matching network examples Readers will see a description of a powerful and accessible method that spans multiple RF PA disciplines including 5G base station and mobile applications as well as sat com and military applications load pull with CAD systems is also included They will review information presented through a practical hands on perspective The book Helps engineers develop systematic accurate and repeatable approach to RF PA design Provides in depth coverage of using the load pull method for first pass design success Offers 150 illustrations and six case studies for greater comprehension of topics

*Commercial Wireless Circuits and Components Handbook* Mike Golio, 2018-10-03 A comprehensive source for microwave and wireless circuit design the Commercial Wireless Circuits and Components Handbook reviews the fundamentals of transmitters and receivers then presents detailed chapters on individual circuit types It also covers packaging large and small signal characterization and high volume testing techniques for both devices and circuits This handbook not only provides important information for engineers working with wireless RF or microwave circuitry it also serves as an excellent source for those requiring information outside of their area of expertise such as managers marketers and technical support workers who need a better understanding of the fields driving their decisions

*Planar Microwave Engineering* Thomas H. Lee, 2004-08-30 Modern wireless communications hardware is underpinned by RF and microwave design techniques This insightful book contains a wealth of circuit layouts design tips and practical measurement techniques for building and testing practical gigahertz systems The book covers everything you need to know to design build and test a high frequency circuit Microstrip

components are discussed including tricks for extracting good performance from cheap materials Connectors and cables are also described as are discrete passive components antennas low noise amplifiers oscillators and frequency synthesizers Practical measurement techniques are presented in detail including the use of network analyzers sampling oscilloscopes spectrum analyzers and noise figure meters Throughout the focus is practical and many worked examples and design projects are included There is also a CD ROM that contains a variety of design and analysis programs The book is packed with indispensable information for students taking courses on RF or microwave circuits and for practising engineers

**Handbook of Microwave Component Measurements** Joel P. Dunsmore, 2020-06-29 Handbook of Microwave Component Measurements Second Edition is a fully updated complete reference to this topic focusing on the modern measurement tools such as a Vector Network Analyzer VNA gathering in one place all the concepts formulas and best practices of measurement science It includes basic concepts in each chapter as well as appendices which provide all the detail needed to understand the science behind microwave measurements The book offers an insight into the best practices for ascertaining the true nature of the device under test DUT optimizing the time to setup and measure and to the greatest extent possible remove the effects of the measuring equipment from that result Furthermore the author writes with a simplicity that is easily accessible to the student or new engineer yet is thorough enough to provide details of measurement science for even the most advanced applications and researchers This welcome new edition brings forward the most modern techniques used in industry today and recognizes that more new techniques have developed since the first edition published in 2012 Whilst still focusing on the VNA these techniques are also compatible with other vendor s advanced equipment providing a comprehensive industry reference

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